

The Hartford Herald

Illinois Central Railroad—Time Table at Beaver Dam, Ky.

North Bound.	South Bound.
No. 132—4:05 a.m. No. 121—11:35 p.m.	No. 122—12:28 p.m. No. 101—2:48 p.m.
No. 102—2:48 p.m. No. 131—8:55 p.m.	

J. E. Williams, Agt.

METHODS USED TO FIND WEIGHT OF THE EARTH

Scientists Have Long Been Trying To Solve This Difficult Question.

One hundred and fifteen years ago, after the ancients, mediaevals, and other modern astronomers and physicists had failed to agree about the weight of the earth, the celebrated scientist Henry Cavendish measured the attractive power that two lumps of globular lead, which weighed respectively about 400 pounds, had over two smaller, but very much smaller, objects. The plainly evident attractive power was estimated by a delicate instrument which consisted of a thin wire, six and one quarter feet long, which held a little trapeze from which two tiny balls hung. As the two great globules of lead approached these balls from opposite sides, there occurred a twist or "torsion" of the wire which is the index of the effect.

Francis Baily, another physicist, repeated this work more recently. In order to secure extreme accuracy, he made more than 2,000 separate repetitions of this experiment.

It is no difficult matter to compute the pull which the large balls must have given the small ones to produce the effect. If lead balls 12 inches in diameter exert such a force, what would be their force or their dead pull were they as large as the earth?

The attractive force of the earth is known. It is the weight of such balls—that is to say, their tendency to fall. The attractive power of the earth, therefore, may now be compared with the influence or "drawing power" of lead.

The mass and density of lead and similar metals is known, therefore it is merely a matter of multiplying a few figures to find the "drawing power" or attraction of the earth and its weight. The latter is, according to this plan, 5.6 times heavier than a globe of water.

The pendulum method consists in the comparison of two pendulums, one swinging on the surface of the earth and the other beneath the surface. The differences between these show that at a given distance below there is a difference in the time of the swing. Thus the pendulums differ in a definite fraction of a second for each number of feet below the sea level.

This calculation has shown that the earth is really over six times as heavy as water, and the actual weight of the whole globe is 132,000,000,000,000,000,000,000 pounds.—[New York American.]

Suffered Eczema Fifty Years—Now Well.

Seems a long time to endure the awful burning, itching, smarting skin-disease known as "tetter"—another name for Eczema. Seems good to realize, also, that Dr. Hobson's Eczema Ointment has proven a perfect cure.

Mrs. D. L. Kenney writes: "I cannot sufficiently express my thanks to you for your Dr. Hobson's Eczema Ointment. It has cured my tetter, which has troubled me for over fifty years." All druggists, or by mail, 50c. Pfeiffer Chemical Co., St. Louis, Mo., Philadelphia, Pa. Sold by James H. Williams. (Advertisement.)

SHORT DISSERTATION CONCERNING DOG DAYS

The dog days are hot stuff. They are also hot and stuffy. They warm up about the middle of August, and are a sure sign that the backbone of winter is broken. It is only when the Dog Star rises that we have dog days, but nobody has yet discovered what the Dog Star rises about, unless it is the sidereal heavens at night, and he certainly does rage about there considerably. Which reminds us that the Dog Star rises only at night, and it is the dog days we hear more about. There is no answer to this one, either. But that makes no difference to the Weather Bureau, and the mercury shines up the tube just

the same, while mankind simply drifts along on a sea of perspiration. The name of the Dog Star is Sirius. This is because he is no joke. Dogs become mad during dog days, and why shouldn't they? Everybody else does, and swears besides, which dogs do not. Dog daisies blossom at this season, and they are tropical flowers, all right. In conclusion it may be said without fear of successful contradiction that although every dog has his day, every day hasn't its dog, and the rest of us ought to be dogged glad of it.—[W. J. Lampton in August Lippincott's.]

FIFTY YEARS AGO.

General U. S. Grant has been made a Major General in the regular army.

General Meade has been promoted to a Brigadier General in the regular army.

One of the greatest novelties of the day is due to the inventive genius of some French fishermen who found that by sinking a bottle containing glow-worms a good take of sardines was insured, which has given rise to the electric light to invite the fish to their nets.

In consequence of the threat of Jeff Davis to execute Captains Sawyer and Flynn in revenge for General Burnside's execution of two Confederate officers who were recaptured within his lines, the United States Government has set apart the rebel General Fitzhugh Lee and Captain Winder (son of the notorious father of Libby Prison) as hostages for our men. As Davis does by Sawyer and Flynn, so shall we do by Lee and Winder.

Lieut. Edward Halleck Ketcham, of the One Hundred and Twentieth N. Y. V., was the first man killed at the battle of Gettysburg. He was a resident of Milton, Ulster county. Though a member of the Society of Friends, he considered it his duty to take up arms in defense of his country. His brother, Lieutenant in the Fourth New York Cavalry, searched the field of battle for six hours before he found the body. He was shot through the head by a sharpshooter.—[From Leslie's, August, 1863.]

A GIFTED ARTIST WHO COULD PAINT PICTURES

In the Walnut Street buffet once owned by Frank Jones are several valuable paintings and works of art in pastel. One of the paintings, according to the Kansas City Journal, is that of the front page of a newspaper the day war was declared with Spain. It is so cleverly done that in looking at it under the proper light, one imagines he sees the paper tacked on a board. A fly with its transparent wings looks as if it were about to take flight.

One day during the life of Mr. Jones a stranger stood gazing at the painting for a long time. It was done by Van Millet, a local artist.

"I would like to have a portrait of my mother painted," said the man solemnly. "Does this artist do that kind of work?"

"He certainly does," replied Jones.

"Well, I guess it would be no use to try to get a portrait, as all I have is an old daguerreotype. He couldn't make a picture from that." "Why, say," advised Jones, "all this artist needs is a lock of hair. That old whatever-you-call-it would be in the way."

Minister Praises this Laxative
Rev. H. Stubenvoll, of Allison, Ia., in praising Dr. King's New Life Pills for constipation, writes: "Dr. King's New Life Pills are such perfect pills no home should be without them." No better regulator for the liver and bowels. Every pill guaranteed. Try them. Price 25c at James H. Williams. (Advertisement.)

One Hand, Eh!

Elmer Harbet, while endeavoring to drive his motor car with one hand last Saturday, met with quite an accident when the machine ran into a ditch just east of town and turned over. Neither he nor his young lady companion was injured.—[Altoona (Mo.) Tribune.]

For Weakness and Loss of Appetite

The Old Standard general strengthening tonic, GROVE'S TASTELESS CHILL TONIC, drives out Malaria and builds up the system. A true tonic and sure Appetizer. For adults and children, 50c.

WHAT BECOMES OF THE BABIES BORN YEARLY?

About two and a half million babies are born in the United States each year. Nearly half a million die in their first year, while half of all that are born will surely die before they reach the age of twenty-three. Of the one and a quarter million who live, a certain proportion will become industrious citizens of average ability, and the smaller proportion will be the leaders of men, the doers of deeds,

while there will be a very definite proportion that will, by reason of their heredity, become criminals, epileptics, paupers, alcoholics. The other more healthy and able people of the United States have to support these incapable ones. There are about half a million insane and epileptic, feeble-minded, blind and deaf; there are 80,000 prisoners and 100,000 paupers—all of whom cost the United States over a hundred million dollars a year.—[Pediatrics.]

POEMS YOU'LL ENJOY.

The Herald's Special Selections.

MAMMY AND I.

My Mammy and I, we are both of us old.

But our love for each other has never grown cold.

And in our last years, more love we have known.

For Mammy and I have a world of our own.

In the sunset of life, we-it's pleasures recall.

And the world that's without is exceedingly small.

To be good to each other, we both of us try.

And that is our world, to Mammy and I.

For we look o'er the past, and o'er life's happy hours.

And the long ago love, that we know is still ours.

That the same will remain till in death we recline.

And they lay us to rest 'neath that evergreen pine.

When one may return, and the other remain.

But we know we will soon be together again.

And we pray the good Lord, for the time drawing nigh.

For to take us together, my Mammy and I.

For the one that is left o'er the past will review.

And will long for a sight of that home in the blue.

And will look up on high at some beautiful star.

And in fancy, be viewing that home from afar.

In the silence of night, when in sorrow alone.

There will long for the face of the one that has gone.

And be ready to follow—for the time is near by—

Lord, keep us together, my Mammy and I.

Mad Dog.

Probably there is no subject upon which the public "knows so many things that ain't so" as rabies. The popular mind is saturated with misinformation about "mad dogs."

In the first place, a "mad dog" does not rush, attack or froth at the mouth, and will not fight when cornered.

The dog that shows these symptoms has epilepsy, which is not communicable even by a bite. Epilepsy is caused by heat, while hydrophobia is not.—[New York Mail.]

Mothers! Have Your Children Worms?

Are they feverish, restless, nervous, irritable, dizzy or constipated? Do they continually pick their nose or grind their teeth? Have they cramping pains, irregular and ravenous appetite? These are all signs of worms. Worms not only cause your child suffering, but stunt its mind and growth. Give "Kickapoo Worm Killer" at once. It kills and removes the worms, improves your child's appetite, regulates stomach, liver and bowels. The symptoms disappear and your child is made happy and healthy, as nature intended. All druggists or by mail, 25c. Kickapoo Indian Medicine Company, Philadelphia, Pa., St. Louis, Mo. Sold by James H. Williams. (Advertisement.)

Jim's Dropsy.

Doctors gave up Jim Woodward, of Cuba, Ill., he was so dropsical. So Jim shot himself, but the bullet set out the fluid and Jim's getting well. Hereafter James will likely call in an expert trapezist instead of a doctor when ailing.—[Oklahoma News.]

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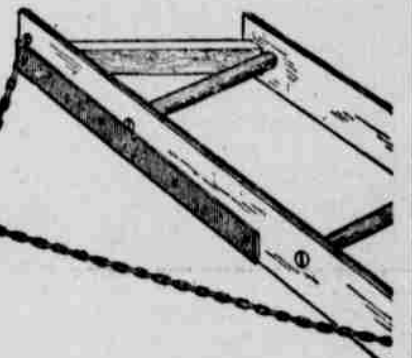
The best results from road dragging come when the roads are dragged directly after a rain. The surface of the road is leveled, the holes and ruts are filled up, and the earth is puddled. A crust forms when the top dries out, making the road much more lasting than it would be if dragged at any other time.

To keep a road smooth and crowned the best method is to drag with an ordinary wood road drag, made easily with two halves of a log which has been split. This log should be about six or eight inches in thickness and six or eight feet long. The halves are set three feet apart with the smooth surfaces forward and upright. They are fastened together with braces set in holes bored through the log.

If they are not heavy enough a board can be placed on top, and the driver stands upon it. This will weight it down sufficiently. In some cases it has been found desirable to attach a piece of metal along the lower edge of the forward piece of the drag. This cuts the surface of the ground better and insures also more efficient work.

The road drag should move forward so that it slants across the road in such a way that a small amount of earth will slide past the smooth face of the log toward the middle of the road, thus forming the crown. In this way the edge of the drag smooths out the ruts and fills up the holes.

The best way to drag is to begin at the side ditch and go up one side of the road and then down on the other.



MODEL ROAD DRAG.

The next trip the drag should be started a little nearer the middle, and the last trip over the road the drag should work close to the middle itself. Small ridges of earth will be thrown in the horse track and smeared by the round side of the log smoothly over the road. The smearing of the earth by the drag is called puddling, and it tends to make the surface smooth and hard and turns off the water, especially after the sun comes out and dries it thoroughly. The road is always dragged after it has rained and not when it is dry. With a good strong pair of horses and a well built drag one man can drag about three or four miles of a road a day. This is the best possible way to maintain good earth roads. In every county some farmer along each four miles of road should own a drag and drag the road when it rains, and he would find the road in good condition when he goes to market.

The necessity for dragging the road comes about from the fact that water stays on the road surface because it cannot drain away into the side ditches. If the road has been properly dragged the water will run off the surface. Then if the ditches are properly taken care of the water will drain away and leave the roadway in splendid condition. The crown of the road should be at least ten inches higher than the outside. Rain on a properly crowned road will run quickly to the sides and not soak into the surface.

NEW ROAD TO YELLOWSTONE.

"The Black and Yellow Trail" to Be Built From Chicago.

South Dakota, Wyoming, Minnesota and Wisconsin are interested in a highway from Chicago to the Yellowstone National park, to be known as the Chicago, Black Hills and Yellowstone Park highway, or "the Black and Yellow Trail."

The tentative route is from Chicago north along the lake shore to Milwaukee, west through Madison to La Crosse, north to Winona, west through Minnesota and South Dakota, following closely the line of the Chicago and Northwestern railway, through the Black Hills and on to Yellowstone park.

Convicts Work on Roads.

In Colorado, Illinois, Michigan, Minnesota, Washington, Utah, California, Wyoming and several other of the northern states experiments have been made with convict labor on the roads, and almost without exception satisfactory results have followed. The men have appreciated the privilege of living in the open air, their health and morals have improved, their work has been good, and very little trouble has been given.

It Always Helps

says Mrs. Sylvania Woods, of Clifton Mills, Ky., in writing of her experience with Cardui, the woman's tonic. She says further: "Before I began to use Cardui, my back and head would hurt so bad, I thought the pain would kill me. I was hardly able to do any of my housework. After taking three bottles of Cardui, I began to feel like a new woman. I soon gained 35 pounds, and now, I do all my housework, as well as run a big water mill. I wish every suffering woman would give

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a trial. I still use Cardui when I feel a little bad, and it always does me good."

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